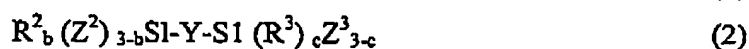


Appl. No.: 10/706,600
 Amdt. dated 05/05/2006
 Reply to Office action of January 5, 2006

Amendments to the Claims:

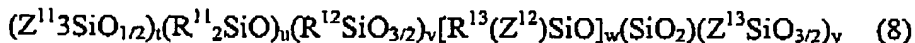
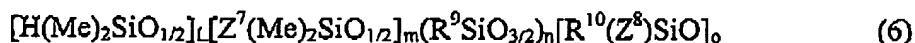
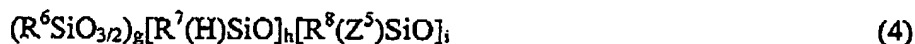
Claims 1-6 (Canceled)

7. (Currently Amended) A semiconductor device comprising internal porous film which is formable by a composition for forming porous film obtainable by hydrolysis and condensation, in an acidic or alkaline condition, of a mixture of 100 parts by weight of one or more compounds selected of the group consisting of hydrolysable silicon compounds represented by Formulas (1) and (2) and partially hydrolyzed and condensed products of the hydrolysable silicon compounds represented by Formulas (1) and (2):



wherein R^1 , R^2 and R^3 each independently represents a monovalent hydrocarbon group which may be substituted or non-substituted; Z^1 , Z^2 and Z^3 each independently represents a hydrolysable group; Y is independently selected from the group consisting of an oxygen atom, a phenylene group and an alkylene group having carbon atom number of 1 to 6; a independently represents an integer of 0 to 3; b and c each independently represents an integer of 0 to 2;

and 0.1 to 20 parts by weight of one or more cross-linking agents selected from the group consisting of structure-controlled cyclic or multi-branched oligomers represented by Formulas (3) to (8):



wherein Me represents a methyl group; R^4 to R^{13} each independently represents a monovalent hydrocarbon group which may be substituted or non-substituted; Z^4 to Z^{13} each independently represents a hydrolysable group; e represents an integer of 1 to 10; f, g, h, i, j and k each

Appl. No.: 10/706,600
Amdt. dated 05/05/2006
Reply to Office action of January 5, 2006

independently represents an integer of 0 to 10 with proviso that $e+f \geq 3$, $g+h+i \geq 4$, and $j+k \geq 4$, and at least one of g and h is not 0; L, m, n, o, p, q, r, s, t, u, v, w, x and y each represents an integer of 0 to 20 with proviso that $L+m+n+o \geq 4$, $p+q+r+s \geq 4$, and $t+u+v+w+x+y \geq 3$, at least one of L, m, and n is not 0, and at least one of t, u, v, x, and y is not 0.

8. (Original) The semiconductor device according to Claim 7 wherein said porous film is between metal interconnections in a same layer of multi-level interconnections, or is between upper and lower metal interconnection layers.

9. (New) The semiconductor device according to Claim 7, wherein the mixture comprises at least one compound selected from the group consisting of hydrolysable silicon compounds represented by Formula (1) and partially hydrolyzed and condensed products of the hydrolysable silicon compounds represented by Formula (1).

10. (New) The semiconductor device according to Claim 7, wherein the mixture comprises at least one compound selected from the group consisting of hydrolysable silicon compounds represented by Formula (2) and partially hydrolyzed and condensed products of the hydrolysable silicon compounds represented by Formula (2).

11. (New) The semiconductor device according to Claim 7, wherein the one or more cross-linking agents comprises at least one cyclic or multi-branched oligomer represented by Formula (3).

12. (New) The semiconductor device according to Claim 7, wherein the one or more cross-linking agents comprises at least one cyclic or multi-branched oligomer represented by Formula (4).

Appl. No.: 10/706,600
Amdt. dated 05/05/2006
Reply to Office action of January 5, 2006

13. (New) The semiconductor device according to Claim 7, wherein the one or more cross-linking agents comprises at least one cyclic or multi-branched oligomer represented by Formula (5).

14. (New) The semiconductor device according to Claim 7, wherein the one or more cross-linking agents comprises at least one cyclic or multi-branched oligomer represented by Formula (6).

15. (New) The semiconductor device according to Claim 7, wherein the one or more cross-linking agents comprises at least one cyclic or multi-branched oligomer represented by Formula (7).

16. (New) The semiconductor device according to Claim 7, wherein the one or more cross-linking agents comprises at least one cyclic or multi-branched oligomer represented by Formula (8).

17. (New) The semiconductor device according to Claim 7, wherein said composition comprises 1 to 10 parts by weight of the one or more cross-linking agents.

18. (New) The semiconductor device according to Claim 7, wherein said composition comprises 2 to 5 parts by weight of the one or more cross-linking agents.